



Tiam Earth Advanced Materials

Revision No.: 6.2

Revision Date: 20.04.2021

Document Code: TE-101-207

Technical Datasheet

KWIK-SEAL F/M/C



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Description

Kwik-Seal F/M/C is a common mixture of loss circulation materials which is applicable in both water-based and oil-based drilling fluid systems. Kwik-Seal F/M/C is composed of Mica flakes, saw dust, sized wood particles and etc. It can alleviate downhole loss circulation with severity of up to 150 BBL/Hr. Kwik-Seal F/M/C is available in three different sizes (fine, medium and coarse). It is better to pumped as LCM pills, and functions more efficiently when it is used with other type of LCMs such as NUT-PLUG, MICA and Sized Calcium Carbonate.

Application

Main function of KWIK-SEAL is to minimize or cure downhole losses in fracture, vugs or permeable zones. Based on severity of losses, type and optimum concentration of KWIK-SEAL is selected and pumped. It can be used in workover operations as well as drilling.

Advantages

- Easy to mix through hopper
- Compatible with most types of regular water-based and oil-based muds
- Stable up to 300°F
- Provide sufficient sealing in fracture zones, vugular formations and thief areas

Limitations

- It has unwanted effects on rheological characteristics when added to the active circulating system, and it is better to be used as LCM pills.
- Medium and Coarse sizes may plug the bit nozzles in high concentrations
- Not suitable for using in reservoir sections

Treatment

Dependent to severity of Losses, normal concentrations for Kwik-Seal F/M/C ranges from 5 to 50 lb/bbl (14-140 Kg/M³) in LCM pills. It should be added slowly through rig hoppers. Treatments must be performed on an incremental basis to prevent any overtreatment and high rheological properties. In special conditions such as work-over wells or cavernous formations, up to 70 lb/bbl of Kwik-Seal F/M/C may be needed. It is better to pumped as LCM pills, and functions more efficiently when it is used with other type of LCMs such as MICA, NUT-PLUG and Sized Calcium Carbonate. Before mixing and pumping any KWIK-SEAL, mud engineers must check size of material with company representative and MWD specialist to prevent any tool blocking in downhole.



Typical Properties

Appearance	Silver/Brown/black/grey Flakes and Granules
Specific Gravity	0.8-1.3
pH (1% Solution)	NA
Solubility	Insoluble in cold water

Kwik-Seal F/M/C sizes are given in below table:

Mesh No	mm	KWIK-SEAL F	KWIK-SEAL M	KWIK-SEAL C
		% retained/residue		
5	4.76	-	-	Min 15 +/- 5
14	1.4	-	Min 10 +/- 5	-
20	0.84	Min 25 +/- 5	-	-
100	0.14	Min 50 +/- 10	Min 70	Min 90

Packaging

Kwik-Seal F/M/C is available in 25-KG SXS.